



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF BIOLOGY



Subject : Biology	Topic : Life Processes - Nutrition	Date of worksheet : 10-4-2019
Resource Person: Zehra Fatima		Date of Submission : _____
Name of the Student : _____	Class & Division : X__	Roll Number : ____

S.No.	Questions	Marks
1 .	Define nutrition.	1
2.	Give a balanced chemical equation for photosynthesis.	1
3.	Which enzyme is present in saliva? Mention its role in food digestion.	1
4.	When we are asleep we are not performing any activity still our life processes are going on. Why?	1
5.	What is the function of digestive enzymes?	1
6.	Mention the name of the pigment present in plants which can absorb solar energy.	1
7.	Where do plants get each of the raw materials for photosynthesis?	1
8.	What are outside raw materials used for by an organism?	1
9.	Why is the Small Intestine of herbivorous animals longer than that of carnivorous animals?	1
10.	Which is the largest gland of our body?	1
11.	Name the sphincter which regulates the exit of food from the stomach.	1
12.	Define peristalsis.	1
13.	What processes would you consider essential for maintaining life?	1
14.	Name the largest part of alimentary canal.	1
15.	What criteria do we use to decide whether something is alive?	2
16.	How is the small intestine designed to absorb digested food?	2
17.	Differentiate autotrophs and heterotrophs.	2
18.	Mention how organisms like bread mould and mushrooms obtain their food.	2



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19. Chewing a piece of chapati in the mouth for a period of time makes it sweeter. Give reason 2
20. Explain fat digestion process in our body and state where does it take place. 2
21. What are the three secretions of gastric glands? State their functions. 2
22. Mention the role of hydrochloric acid secreted in our body. 2
23. Why pancreas is called mixed gland? 2
24. Name any three important enzymes of pancreas and the food component on which they act. 2
25. Explain the mode of feeding in amoeba. Draw diagrams to illustrate 3
26. What are intestinal juices? From where do these intestinal juices come to the small intestine? 3
27. Name the finger like projections of small intestine and what is the necessity of such type of projections in digestive system? 3
28. Name the mode of nutrition 3
  - a) food is digested outside the body
  - b) nutrition is derived from other organism without killing
  - c) whole material is taken and digested inside body.
29. Explain the process of photosynthesis in brief. 3
30. What is the secretion of liver known as? State its function in digestion. 3
31. Explain in detail the process of digestion in human beings with help of a well labeled diagram of alimentary canal 5



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Subject : Biology

Topic : Life Processes -  
Respiration

Date of worksheet : 10-4-2019

Resource Person: Zehra Fatima

Date of Submission : \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Class & Division : X\_\_

Roll Number : \_\_

S.No.	Questions	Marks
1 .	On which layer of leaf epidermis do you find more number of stomata present and why?	1
2.	Name the respiratory organs in Fish and Earthworm.	1
3.	How is ATP formed during cellular respiration?	1
4.	Name the intermediate and the end product of glucose break down in aerobic respiration.	1
5..	Which part of lungs in human beings maximize the area for exchange of gases?	1
6.	What is Cellular Respiration? Mention the end products of anaerobic respiration in yeast.	1
7.	Name the respiratory pigment found in human body. Explain its role?	1
8.	What advantage does a terrestrial organism have over an aquatic organism with regard to process of respiration?	1
9.	Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like humans?	2
10.	Mention the role of the following i)Hairs and mucus in the nasal passage of human beings ii)Rings of cartilage in trachea.	2
11.	Write the difference between inhalation and exhalation.	2
12.	What are stomata? How does gaseous exchange takes place in plants?	2
13.	After a vigorous exercise, you may experience cramps in your leg muscles. Why does this happen?	2
14.	Explain the different pathways by which glucose is broken down by organisms.	3



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| 15. | How is oxygen and carbondioxide transported in human beings?   | 3 |
| 16. | What are the differences between aerobic and anaerobic respiration? Name an organism that uses anaerobic mode of respiration and aerobic mode of respiration.. | 3 |
| 17. | How are the lungs designed in human beings to maximize the area for exchange of gases?   | 3 |
| 18. | Explain the mechanism of breathing , with the help of a well labelled diagram of respiratory system of human being.  | 5 |